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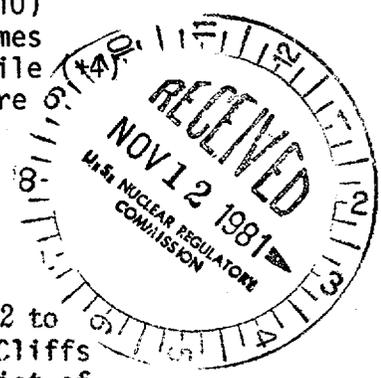
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Docket No. 50-317
50-318

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Mr. A. E. Lundvall, Jr.
Vice President - Supply
Baltimore Gas & Electric Company
P.O. Box 1475
Baltimore, Maryland 21203



Dear Mr. Lundvall:

The Commission has issued the enclosed Amendment Nos. 60 and 42 to Facility Operating License Nos. DPR-53 and DPR-69 for Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2. These amendments consist of changes to the Appendix A Technical Specifications in partial response to your applications dated October 16, as supplemented October 27, 1981.

These amendments revise the Technical Specifications to allow a single hydrogen analyzer to be made inoperable, at any given time, for the purpose of performing modifications relating to TMI Action Plan Item II.F.1.6., "Hydrogen Level Monitoring".

A copy of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Original signed by
Robert A. Clark

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Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Enclosures:

1. Amendment No. 60 to DPR-53
2. Amendment No. 42 to DPR-69
3. Safety Evaluation
4. Notice of Issuance

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FRN [Signature]

OFFICE	ORB#3:DL	ORB#3:DL	ORB#3:DL	AD:OR:DL	OELD	ORB#4:DL
SURNAME	PMKreutzer	DJaffe	RAClark	TMNovak	[Signature]	DB Ericson
DATE	10/29/81	10/29/81	11/2/81	11/4/81	11/4/81	11/2/81



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

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Docket No. 50-317/50-318

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: BALTIMORE GAS & ELECTRIC COMPANY, Calvert Cliffs Nuclear Power
Plant, Units Nos. 1 add 2

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies (12) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.
- Notice of Availability of Applicant's Environmental Report.
- Notice of Proposed Issuance of Amendment to Facility Operating License.
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) or Amendment(s).
- Other: Amendment Nos. 60 and 42
Referenced documents have been provided PDR.

Division of Licensing
Office of Nuclear Reactor Regulation

Enclosure:
As Stated

OFFICE →	ORB#3:DL					
SURNAME →	PMKreutzer/pr					
DATE →	11/6/81					



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

BALTIMORE GAS AND ELECTRIC COMPANY

DOCKET NO. 50-317

CALVERT CLIFFS NUCLEAR POWER PLANT UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 60
License No. DPR-53

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Baltimore Gas & Electric Company (the licensee) dated October 16 as supplemented October 27, 1981, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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P PDR

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-53 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 60, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Attachment:
Changes to the
Technical Specifications

Date of Issuance: November 6, 1981

ATTACHMENT TO LICENSE AMENDMENT NO. 60

FACILITY OPERATING LICENSE NO. DPR-53

DOCKET NO. 50-317

Replace the following page of the Appendix A Technical Specifications with the enclosed page as indicated. The revised page is identified by Amendment number and contains vertical lines indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

Page

3/4 6-26

TABLE 3.6-1 (Cont.)

CONTAINMENT ISOLATION VALVES

<u>PENETRATION NO.</u>	<u>ISOLATION VALVE IDENTIFICATION NO.</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (SECONDS)</u>
61	76Y-1 293M-1 293M-1 293M-1	Refueling Pool Outlet	NA NA NA NA
62	MOV-6579	Containment Heating Outlet	<13
64	238-1	Containment Heating Inlet	NA

- (1) Manual or remote manual valve which is closed during plant operation.
- (2) May be opened below 300°F to establish shutdown cooling flow.
- * May be open on an intermittent basis under administrative control.

CONTAINMENT SYSTEMS

3/4.6.5 COMBUSTIBLE GAS CONTROL

HYDROGEN ANALYZERS

LIMITING CONDITION FOR OPERATION

3.6.5.1 Two independent containment hydrogen analyzers shall be OPERABLE.

APPLICABILITY: MODES 1 and 2.

ACTION:

With one hydrogen analyzer inoperable*, restore the inoperable analyzer to OPERABLE status within 30 days or be in at least HOT STANDBY within the next 6 hours.

SURVEILLANCE REQUIREMENTS

4.6.5.1 Each hydrogen analyzer shall be demonstrated OPERABLE at least once per 92 days on a STAGGERED TEST BASIS by performing a CHANNEL CALIBRATION using sample gases containing:

- a. Zero volume percent hydrogen, balance nitrogen, and
- b. Three volume percent hydrogen, balance nitrogen.

* Until August 1, 1982, one hydrogen analyzer may be made inoperable, at any given time, for the purpose of performing modifications relating to TMI Action Plan Item II.F.1.6. During this time, Specification 3.0.4 is not applicable to this requirement.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

BALTIMORE GAS AND ELECTRIC COMPANY

DOCKET NO. 50-318

CALVERT CLIFFS NUCLEAR POWER PLANT UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 42
License No. DPR-69

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Baltimore Gas & Electric Company (the licensee) dated October 16 as supplemented October 27, 1981, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

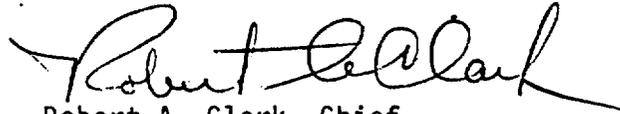
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-69 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 42, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

Attachment:
Changes to the
Technical Specifications

Date of Issuance: November 6, 1981

ATTACHMENT TO LICENSE AMENDMENT NO. 42

FACILITY OPERATING LICENSE NO. DPR-69

DOCKET NO. 50-318

Replace the following page of the Appendix A Technical Specifications with the enclosed page as indicated. The revised page is identified by Amendment number and contains vertical lines indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

Page

3/4 6-26

TABLE 3.6-1 (Cont.)
CONTAINMENT ISOLATION VALVES

<u>PENETRATION NO.</u>	<u>ISOLATION VALVE IDENTIFICATION NO.</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (SECONDS)</u>
61	76Y-1 293M-1 293M-1 293M-1	Refueling Pool Outlet	NA NA NA NA
62	MOV-6579	Containment Heating Outlet	<u><13</u>
64	238-1	Containment Heating Inlet	NA

(1) Manual or remote manual valve which is closed during plant operation.

(2) May be opened below 300°F to establish shutdown cooling flow.

* May be open on an intermittent basis under administrative control.

CONTAINMENT SYSTEMS

3/4.6.5 COMBUSTIBLE GAS CONTROL

HYDROGEN ANALYZERS

LIMITING CONDITION FOR OPERATION

3.6.5.1 Two independent containment hydrogen analyzers shall be OPERABLE.

APPLICABILITY: MODES 1 and 2.

ACTION:

With one hydrogen analyzer inoperable*, restore the inoperable analyzer to OPERABLE status within 30 days or be in at least HOT STANDBY within the next 6 hours.

SURVEILLANCE REQUIREMENTS

4.6.5.1 Each hydrogen analyzer shall be demonstrated OPERABLE at least once per 92 days on a STAGGERED TEST BASIS by performing a CHANNEL CALIBRATION using sample gases containing:

- a. Zero volume percent hydrogen, balance nitrogen, and
- b. Three volume percent hydrogen, balance nitrogen.

*Until August 1, 1982, one hydrogen analyzer may be made inoperable, at any given time, for the purpose of performing modifications relating to TMI Action Plan Item II.F.1.6. During this time, Specification 3.0.4 is not applicable to this requirement.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NOS. 60 AND 42 TO

FACILITY OPERATING LICENSES NOS. DPR-53 AND DPR-69

BALTIMORE GAS AND ELECTRIC COMPANY

CALVERT CLIFFS NUCLEAR POWER PLANT UNIT NOS. 1 & 2

DOCKET NOS. 50-317 AND 50-318

Introduction

By application dated October 16, 1981, the Baltimore Gas and Electric Company (BG&E) requested changes to the Technical Specifications for Calvert Cliffs Units 1 and 2. The application of October 16, 1981 included proposed Technical Specifications to allow an extended outage of a single hydrogen analyzer, during a specified period, for the purpose of performing modifications in connection with TMI Action Plan Item II.F.1.6. By letter dated October 27, 1981, BG&E provided additional information regarding this matter.

In the course of reviewing the application of October 16, 1981, we have made changes in the proposed Technical Specifications in order to meet our requirements. These changes have been discussed with, and approved by, BG&E.

Discussion and Evaluation

At the present time, Calvert Cliffs Units 1 and 2 Technical Specification 3.6.5.1 requires that both hydrogen analyzers be operable. In the event that a single hydrogen analyzer becomes inoperable, the analyzer must be restored to operable status within 30 days or the reactor must be placed in hot standby within the next six hours. By application dated October 16, 1981, as supplemented by letter dated October 27, 1981, BG&E informed the NRC of their desire to extend the allowable outage time for a single hydrogen analyzer from 30 days to approximately 8 months, for a single occasion. The stated purpose of the extended hydrogen analyzer outage is to perform modifications which are required to meet NRC requirements under TMI Action Plan Item II.F.1.6., entitled "Hydrogen Level Monitoring". The licensee has estimated that each hydrogen analyzer must be removed from service for a period of four months to perform the required modifications.

With regard to the design of the hydrogen analyzers, there are two hydrogen analyzer systems installed at Calvert Cliffs which together serve both Units. The systems are cross-connected such that one system can draw samples from three pre-selected sample points in each containment, and the other system can draw

samples from three different pre-selected sample points in each containment. Both systems can also draw samples from the reactor coolant waste receiver and waste monitor tanks. The cross-connect piping directs the sampled atmosphere back into the appropriate containment or tank. When one analyzer system is inoperable, the three sample points in each containment that are served by that analyzer are not used. However, the second analyzer still samples both containments using its three assigned sample points in each containment.

The hydrogen analyzers are only necessary for containment sampling following a loss-of-coolant accident, when hydrogen generation may be expected. In addition, one analyzer system is used on a weekly basis to obtain a sample from the waste receiver and monitor tanks. Both analyzer systems have a manual grab sample capability. Grab samples are used routinely for monitoring the waste receiver and monitor tanks for hydrogen and the grab sample capability can also be used to monitor the containment atmosphere if the analyzer unit itself is inoperable. The analyzer system pump must be operating to draw the sample.

During the period when one analyzer system is out of service, the second system will be available to perform all necessary sampling evolutions. The replacement system will be fully installed and tested before the second analyzer system is replaced. If while one analyzer is being replaced, the second analyzer is needed for operation (e.g., following a loss-of-coolant-accident or to sample the radwaste tanks), replacement of key components in the second analyzer can be carried out in a reasonable period of time should the need arise. If a hydrogen analyzer system experiences a single failure, the design function of the system can still be accomplished by using the grab sample feature if the analyzer itself fails or by substituting the pump from the inoperable analyzer system (which will remain in its present installed location) if the pump is the component which fails. Accordingly, there is reasonable assurance that a single hydrogen analyzer system is adequate to perform the necessary post-accident sampling functions for either containment, during the extended outage of a hydrogen analyzer.

Based upon the information presented above, we find that it is appropriate to change Calvert Cliffs Units 1 and 2 Technical Specification 3.6.5.1 to allow a single hydrogen analyzer to be made inoperable, at any given time, for the purpose of performing modifications relating to TMI Action Plan Item II.F.1.6. This change is issued for a single occurrence, terminating August 1, 1982. During this period of time, the provisions of Technical Specification 3.0.4, which would prevent Calvert Cliffs Units 1 and 2 from changing operational modes with a hydrogen analyzer inoperable, is suspended as it applies to Technical Specification 3.6.5.1.

Environmental Consideration

We have determined that the amendments do not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendments involve an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendments do not involve a significant increase in the probability or consequences of accidents previously considered and do not involve a significant decrease in a safety margin, the amendments do not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Dated: November 6, 1981

UNITED STATES NUCLEAR REGULATORY COMMISSION
DOCKET NOS. 50-317 AND 318
BALTIMORE GAS AND ELECTRIC COMPANY
NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 60 and 42 to Facility Operating Licenses Nos. DPR-53 and DPR-69, issued to Baltimore Gas and Electric Company, which revised Technical Specifications for operation of the Calvert Cliffs Nuclear Power Plant, Units Nos. 1 and 2 located in Calvert County, Maryland. The amendments are effective as of the date of issuance.

These amendments revise the Technical Specifications to allow a single hydrogen analyzer to be made inoperable, at any given time, for the purpose of performing modifications relating to TMI Action Plan Item II.F.1.6., "Hydrogen Level Monitoring".

The application for the amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of the amendments was not required since the amendments do not involve a significant hazards consideration.

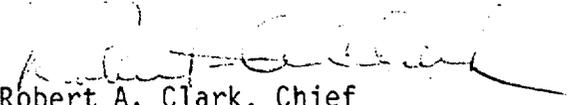
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The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of the amendments.

For further details with respect to this action, see (1) the application for amendment dated October 16 as supplemented October 27, 1981, (2) Amendment Nos. 60 and 42 to License Nos. DPR-53 and DPR-69, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D.C. and at the Calvert County Library, Prince Frederick, Maryland. A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 6th day of November, 1981.

FOR THE NUCLEAR REGULATORY COMMISSION


Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing